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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,707	02/27/2004	Herbert Mauerberger	10901/57	9630
26646 KENYON & K	7590 10/16/200 ENYON LLP	EXAMINER		
ONE BROADY		JOHNSON, SONJI N		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2887	
			MAIL DATE	DELIVERY MODE
			10/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/789,707	MAUERBERGER ET AL.			
		Examiner	Art Unit			
		SONJI JOHNSON	2887			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 26.	June 2008				
•	This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	∑ Claim(s) <u>1-22</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-22</u> is/are rejected.					
· ·						
•	Claim(s) are subject to restriction and/	or election requirement.				
	ion Papers	·				
	•					
-	9) The specification is objected to by the Examiner.					
10)[2]	10)⊠ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Response to Amendment

Receipt is acknowledged of applicant's amendment filed on 6/26/2008. Claims 1 and 18 has been amended. Claims 19-22 have been added. Claims 1-22 are pending, and an action on the merits is as follows.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Setbacken et al. 6,175,109, herein referred to as Setbacken '109, and further view of Schmitt 4,363,964, herein, referred to as Schmitt "964.

Re claim 1, Setbacken '109 discloses a scanning unit (20, Fig 1) for scanning a measuring standard including a coded track formed by a graduated scale (Abstract, Column 2 lines 1-5 and Column 3, lines 30-33, wherein the data track 11 comprises a coded track which overlies the incremental track) and a reference mark system (Abstract, Column 2 lines 1-5 and Column 3, lines 30-33, wherein the reference mark system is the incremental track of the data track 11), comprising:

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a detector system (Column 2, line 56-Column 3 line 19 and Column 4, line 32 – Column 5, line 35, wherein the detector system is the detecting unit 21, Fig 2),configured to scan the coded track (Column 5, lines 29-31);

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an additional detector system (Column 2, line 56-Column 3, line 19, and Column 4, line 35— Column 5, line 32, wherein the additional detector system is the detection system 22, Fig 2) configured to scan the reference mark system (Column 4 lines 36-38, wherein the incremental track is scanned by the detection system 22), the additional detector system including a signal-sensitive surface (Column 4, lines 43-44, wherein the detector unit has a light sensitive area) configured to receive scanning signals when scanning the reference mark system, the additional detector system including at least two sensors (Column 4, lines 32-50, wherein the two sensors are the photodetectors 22.1-22.9), each of the at least two sensors of the additional detector system positioned to scan the reference mark system (Column 2, line 56-Column 3, line 19, and Column 4, line 35— Column 5, line 32, wherein the additional detector system is the detection system 22 comprising of sensors 22.1-22.9 scans the incremental track, Fig 2)

but does not specifically disclose that the additional detector system can be configured to use only one of the at least two sensors to scan the reference mark system during operation of the scanning unit; or that the scanning unit comprises a differential amplifier including two inputs, each of the sensors connected to a respective one of the two inputs; and an arrangement configured to cover the signal-sensitive surface of a sensor not used for scanning to deactivate the sensor not used for scanning.

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However Schmitt "964 teaches of an incremental measuring instrument that provides absolute and incremental position information of an object along a certain measuring direction, having a scanning device (2, Fig 1) with a detector system configured to use only one of the at least two sensors (Column 3 lines 1-30, wherein the detector system comprises sensors 12, 13, 16, Fig 2a, 2b 3 and 4) to scan a reference mark system (Column 2, lines 56-57, wherein the reference mark system is the fixed reference mark 4, Fig 1) during operation of the scanning unit (2, Fig 1); a differential amplifier including two inputs, each of the sensors connected to a respective one of the two inputs (Column 3, lines 15-34, wherein the sensors 12, 13, and 16 are connected to the two input terminal of amplifier 14, Fig. 2a, 2b, 3, 4, 5); and an arrangement configured to cover the signal-sensitive surface of a sensor of the at least two sensors (Column 3, lines 15-20, 34-35 and Column 4, lines 31-45, wherein the sensor are 12, 13 and 16, wherein the occluding screen is the cover) of the additional detector system (Column 3, lines 15-20, 34-35 and Column 4, lines 31-45, wherein the additional detector system comprises of sensors 12, 13 and 16, Fig 3-5) not used for scanning to deactivate the sensor not used for scanning (Column 4, lines 31-50, wherein the sensor 16 can be can be blocked by the occluding screen 21 and thus not able to illuminate and therefore deactivated, wherein it is obvious that the occluding screen 21 can blocked the illumination of the other photosensitive elements 12 and 13 since the occluding screen 21 is slidably mounted to move along the measuring direction, Fig 2b).

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Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made for the encoder of Setbacken '109 comprising a scanning unit with an additional detector system to be configured to use only one of the at least two sensors to scan the reference mark system during operation of the scanning unit; and to comprise a differential amplifier including two inputs, each of the sensors connected to a respective one of the two inputs; and an arrangement configured to cover the signal-sensitive surface of a sensor not used for scanning to deactivate the sensor not used for scanning.

Since Schmitt "964 teaches of an improved incremental measuring system wherein particular applications not used can be deactivated as required in order to proved generate control signals only for the designated subset of reference marks(Column 2, lines 1-11Column 3 lines 1-30, Column 4, lines 31-50, Fig 2b).

Re claim 2, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Setbacken '109 further discloses that the scanning unit is configured to scan the measuring standard in accordance with a photoelectric measuring principle (Colum 2 lines 49-51, wherein the scanning unit 20 ,photoelectrically scans the measured standard, Fig.1), and wherein the two sensors include photoelements (Column 4 lines 36-50, wherein the two detector units 22, 21 comprise photodetectors, Fig. 2).

Re claim 3 Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 2, and Setbacken '109 further discloses that the photoelements

include photodiodes (Column 4 lines 36-50, wherein the two detector units 22, 21 comprises photodetectors, Fig. 1, 2).

Re claim 4, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Schmitt "964 further discloses that a first input of the differential amplifier is connected to the sensor used for scanning the measuring standard and a second input of the differential amplifier is connected to the deactivated sensor (Column 3 lines15-34, wherein the sensor 12, 13 and 16 are connected to the two input terminal of amplifier 14, Fig 3, 4).

Re claim 5, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Schmitt "964 further discloses that each sensor (12, 13, 16) is configured to be optionally activated with the other sensor deactivated (Column 4, lines 31-50, wherein the illumination or non-illumination, i.e. the deactivation or the activation of the sensor is controlled by the occluding screen 21, Fig 2b), each sensor configured to be optionally connected to each input of the differential amplifier (Column 3 lines 15-14 and lines 33-35 wherein the sensor 12, 13 or 12 and 16 are connected to the two input terminal of amplifier 14, Fig 3, 4).

Re claim 6, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 5, and Schmitt "964 further discloses that wherein the sensors (12, 13, 16) are connected to the inputs of the differential amplifier (Column 3 lines 15-14 and lines 33-35, wherein the sensor 12, 13 or 12 and 16 are connected to the two input terminals of amplifier 14, Fig 3, 4) and so that the sensor used for scanning the measuring standard is connected to a first input of the differential amplifier (Column 3

lines 15-14 and lines 33-35 wherein the activated sensor is connected to the first input) and the other, deactivated sensor (Column 4, lines 31-50, wherein the sensor 16 can be can be block by the occluding screen 21, wherein the deactivated sensor 16 can be block by the occluding screen 21, thus deactivating the sensor, Fig 2b) is connected to a second input of the differential amplifier (14, Fig 3, 4).

Re claim 7, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 6, and Schmitt "964 further discloses that the sensor used for scanning the measuring standard is connected to an inverting input of the differential amplifier (Column 3, lines 15-14 and lines 33-35 wherein the sensor 12, 13 or 12 and 16 are connected to the two input terminals of amplifier 14, wherein the inverter input is shown in Fig 3, 4, 5).

Re claim 8, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Schmitt "964 further discloses that the sensors (12, 13, 16) are positioned directly adjacent to one another (as shown in Fig 3, 4, 5).

Re claim 9, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit (2, fig 1) as recited in claim I, and Setbacken '109 further discloses that the signal.sensitive surfaces of the sensors are made of the same material (Column 4 lines 43-44 wherein the sensors are broken down from a rectangular light sensitive area, thus the materials are the same).

Re claim 10, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Setbacken '109 further discloses that wherein the signal-sensitive surfaces of the sensors are substantially the same size (Column 4, lines 46-

48, wherein the photodetectors 22.1- 22.9 have a length $1I_{NC}$ and a width W $_{INC}$, thus the sensors are the same size)

Re claim 11, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim I, and Schmitt "964 further discloses that the electrical connecting line, between the sensors and a corresponding input of the differential amplifier are conforming (Fig 3,4,5, wherein the electrical lines are the line that connects the sensors to the amplifier,).

Re claim 12, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Schmitt "964 further discloses that the electrical connecting lines between the sensors and a corresponding input of the differential amplifier have substantially a same length (Fig 3-5, wherein the electrical lines and the inputs are approximately the same length).

Re claim 13, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim I, and Setbacken '109 further discloses that the sensors (22.1-22.9) are configured to scan reference marks of the reference mark system having exactly one type (Column3, lines 30-35, wherein the reference marks is the incremental track of the data track 11 with a fine graduation incremental graduation period).

Re claim 14, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 1, and Setbacken '109 further discloses that the sensors (22.1-22.9) are configured to scan different reference marks of the reference mark system (Abstract, Column 2 lines 1-5 and Column 3, lines 30-33, wherein the reference mark system is the incremental track of data track 11)

Re claim 15, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 14, and Setbacken '109 further discloses that wherein the reference mark system includes coded and uncoded reference marks (Column 2, lines 4-17 and Column 3 lines 30-55, wherein the reference mark system is the incremental track of the data track 11 comprising of a separate coarse code track).

Re claim 16, Setbacken '109 and Schmitt "964 disclose and teach the scanning unit as recited in claim 14, and Setbacken '109 further discloses that wherein the reference marks system includes distance-coded reference marks and uncoded reference marks (Column 2, lines 4-17 and Colum 3 lines 50-55, wherein the reference mark system is the incremental track of the data track 11, which also comprises a separate coarse code track, wherein the code tracks are used to generate absolute position information).

Re claim 17, Setbacken '109 and Schmitt "964 discloses and teach the scanning unit as recited in claim 1, and Setbacken '109 further discloses that wherein the coded track is arranged as an incremental track (Column, 4, lines 20-24, wherein the encoder has an incremental track and separate code track within one data track 11).

Re claim 18, Setbacken '109 discloses a measuring device for taking positional measurements of two assemblies which are movable in relation to one another (Column 1 lines 66- Column 2, line 2, wherein the encoder provides absolute and incremental position information of an object which moves along a certain path), comprising: a measuring standard including a coded track formed by a graduated scale and a reference mark system (Column 2 lines 1-6, wherein the data track 11, has an fine

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increment track, wherein the fine increment track of data track 11 is the reference mark system with separate course code tracks) and a scanning unit (20), including:

a detector system configured to scan the coded track (Column 5, lines 29-31, wherein the detector system is the detecting unit 21 that scans the code tracks); an additional detector system (Column 2, line 56,-Column 3, line 19, and Column 4 line 32 – Column 5, line 35, wherein the additional detector system is the detection system 22) configured to scan the reference mark system (Column 4 lines 36-38, wherein the reference mark system, specifically the incremental track, is scanned by detector 22), the additional detector system 22 including a signal-sensitive surface (Column 4, lines 43-44, wherein the detector unit has a light sensitive area) configured to receive scanning signals when scanning the reference mark system (Abstract, Column 2 lines 1-5 and Column 3, lines 30-33, wherein the reference mark system is the incremental track of data track 11), the additional detector system including at least two sensors (Column 4, lines 32-50 wherein the two sensors are the photodetectors 22.1-22.9), each of the at least two sensors of the additional detector system positioned to scan the reference mark system (Column 2, line 56-Column 3, line 19, and Column 4, line 35– Column 5, line 32, wherein the additional detector system is the detection system 22 comprising of sensors 22.1-22.9 scans the incremental track, Fig 2) but does not specifically disclose that the additional detector system can be configured to use only one of the at least two sensors to scan the reference mark system during operation of the scanning unit; or that the scanning unit comprises

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a differential amplifier including two inputs, each of the sensors connected to a respective one of the two inputs; and

an arrangement configured to cover the signal-sensitive surface of a sensor not used for scanning to deactivate the sensor not used for scanning.

However, Schmitt "964 teaches of an encoder that provides absolute and incremental position information of an object along a certain measuring direction, having a scanning device (2, Fig 1) with a detector system configured to use only one of the at least two sensors (Column 3 lines 1-30, wherein the detector system comprises sensors 12, 13, 16, Fig 2a, 2b, 3 and Fig 4) to scan a reference mark system (Column 2, lines 56-57, wherein the reference mark system is the fixed reference mark 4, Fig 1) during operation of the scanning unit (2, Fig 1) a differential amplifier including two inputs, each of the sensors connected to a respective one of the two inputs (Column 3, lines 15-34, wherein the sensors 12, 13 and 16 are connected to the two input terminals of amplifier 14, Fig. 2a, 2b, 3, 4, 5); and an arrangement configured to cover the signal-sensitive surface of a sensor of the at least two sensors of the additional detector system(Column 3, lines 15-20, 34-35 and Column 4, lines 31-45, wherein the sensor are 12, 13 and 16, wherein the occluding screen is the cover) not used for scanning to deactivate the sensor not used for scanning (Column 4, lines 31-50, wherein the sensor 16 can be can be blocked by the occluding screen 21, thus deactivating the sensor, wherein it is obvious that the occluding screen 21 can blocked the illumination of the other photosensitive elements

12 and 13 since the occluding screen 21 is slidably mounted to move along the measuring direction, Fig 2b).

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made for the encoder of Setbacken '109 comprising of a scanning unit with an additional detector system to be configured to use only one of the at least two sensors to scan the reference mark system during operation of the scanning unit; and to comprise a differential amplifier including two inputs, each of the sensors connected to a respective one of the two inputs; and an arrangement configured to cover the signal-sensitive surface of a sensor not used for scanning to deactivate the sensor not used for scanning.

Since Schmitt "964 teaches of an improved incremental measuring system wherein particular applications not used can be deactivated as required in order to proved generate control signals only for the designated subset of reference marks(Column 2, lines 1-11Column 3 lines 1-30, Column 4, lines 31-50, Fig 2b).

Re claim 19, Setbacken '109 and Schmitt "964 discloses the scanning unit as recited in claim 1, and Schmitt "964 further discloses wherein the arrangement configured to cover the signal-sensitive surface of the sensor of the at least two sensors of the additional detector system not used for scanning to deactivate the sensor not used for scanning permanently covers the signal-sensitive surface of the sensor of the at least two sensors of the additional detector system not used for scanning (Column 4, lines 31-50, wherein the sensor 16 can be can be blocked by the occluding screen 21, thus deactivating the sensor, wherein it is obvious that the occluding screen 21 can

blocked the illumination of the other photosensitive elements 12 and 13 since the occluding screen 21 is mounted to move along the measuring direction, wherein it is obvious that the occluding screen 21 permanently covers the sensors when it is positioned and set to block the illumination of the sensors Fig 2b).

Re claim 21, Setbacken '109 and Schmitt "964 discloses the measuring device as recited in claim 18, and wherein the arrangement configured to cover the signal-sensitive surface of the sensor of the at least two sensors of the additional detector system not used for scanning to deactivate the sensor not used for scanning permanently covers the signal-sensitive surface of the sensor of the at least two sensors of the additional detector system not used for scanning (Column 4, lines 31-50, wherein the sensor 16 can be can be blocked by the occluding screen 21, thus deactivating the sensor, wherein it is obvious that the occluding screen 21 can blocked the illumination of the other photosensitive elements 12 and 13 since the occluding screen 21 is mounted to move along the measuring direction, wherein it is obvious that the occluding screen 21 permanently covers the sensors when it is positioned and set to block the illumination of the sensors. Fig 2b).

Claims 20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Setbacken et al. 6,175,109, herein referred to as Setbacken '109, further view of Schmitt 4,363,964, herein, referred to as Schmitt "964, and in further view of Homer US Patent No. 7, 141, 780, herein referred to as Homer '780.

Re claim 20, Setbacken '109 and Schmitt "964 discloses the scanning unit as recited in claim 1 and a differential amplifier, but does not specifically discloses wherein the differential amplifier is configured to suppress electrical interference occurring at the sensors or connecting lines that connect the sensors to the respective inputs of the differential amplifier by subtraction of signals received by the differential amplifier from the sensors.

However Homer '780 teaches of a positions determination device for reading reference mark (Abstract, Column 1, lines 8-11) specifically comprising of a differential amplifier (D, Fig 9) is configured to suppress electrical interference occurring at the sensors (30, 32, 34 Fig 2-5) of the differential amplifier by subtraction of signals received by the differential amplifier from the sensors (Column 5, lines 40-63).

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made for the signals generated by the sensors of Setbacken '109 and Schmitt "964 to be subtracted at the differential amplifier as claimed.

Since Homer '780 teaches of a positional determination device wherein the signals are subtracted at the differential amplifier to inhibit background noise (Column 5, lines 40-63).

Re claim 22, Setbacken '109 and Schmitt "964 discloses the measuring device as recited in claim 18, and Schmitt "964 further discloses wherein the differential amplifier is configured to suppress electrical interference occurring at the sensors or connecting lines that connect the sensors to the respective inputs of the differential

amplifier by subtraction of signals received by the differential amplifier from the sensors (Column 5, lines 40-63).

Response to Arguments

Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONJI JOHNSON whose telephone number is 571-270-5266. The examiner can normally be reached on Monday-Thursday 7:30 AM -6:30 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve S. Paik can be reached on 571-272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SONJI JOHNSON/ Examiner, Art Unit 2887 /STEVEN S. PAIK/ Supervisory Patent Examiner, Art Unit 2887

/S. J./ Examiner, Art Unit 2887